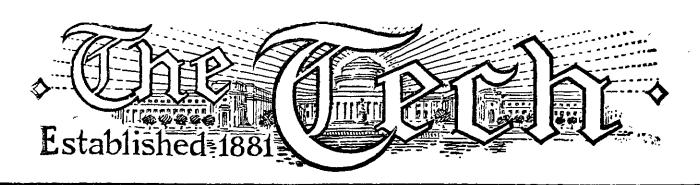
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CAMBRIDGE, MASS., SATURDAY, AUG. 31, 1918

Price Three Cents

MENINS. A. T. C. UNITS TO BE PAID, CLOTHED, FED, AND EDUCATED AT GOVERNMENT EXPENSE

TECHNOLOGY BUREAU

Institute Branch of American University Union Describes Its Activities in Letter to THE TECH

DINNER HELD AUGUST 13TH

The Technology Bureau of the American University Union in Paris has started a series of bi-weely letters to THE TECH, of which the following, just received, is the first.

Technology Bureau of the American University Union, 8 Rue Richelieu,

Paris, France, August 1, 1918. Every week finds the influence and

work of the Technology Bureau at the University Union growing to keep pace with the expansion of the American Forces in France and the growing number of Technology men who are arriving and registering either by personal calls at the Bureau or by mail upon their definite assignment to a post. The register in the office, instead of registering one or two names a day, is now showing six to eight, while on holidays such as

The last dinner proved to be the most successful of any yet held, with over 30 men in attendance, and others in town, who, although stopping in for a moment, were unable to stay. Major Dugald C. lackson and his brother, also a major, were present as the speakers. The latter gave us a very interesting talk on his trip into Germany as an official representative of the State of Pennsyl-

(Continued on page 3)

MINUTES OF THE MEETING OF THE INSTITUTE COMMITTEE, AUG. 22,

The meeting was called to order by Ch. Brackett at 5.15.

The minutes of the previous meeting were read and accepted.

The resignations of the following men were read and accepted, povisional to the appointment of a new man: E. R. Smoley as Ch. of the Finance Committee: G. Bliss as Ch. of the Military Affairs Committee; M. C. Balfour as Ch. of the Budget Committee and Treasurer of the Institute Committee.

It was moved, seconded and passed that there be established a calendar of future duties of the Institute Committee to be kept by he Secretary of he Institute Committee, for the purpose of running student affairs in a more regular

It was moved, seconded and laid on the table that the motion to adjourn be made debatable in the Institute Committee meeings.

It was moved, seconded and passed that any publication failing to submit a report to the Advisory Committee on Publications, after being requested to do so by them, be suspended as a member of the Institute Committee, subject to the payment of a fine of \$10 (Ten) before being readmitted.

The meeting was adjourned at 5.55

Messrs. Banks and Kimball were ab-

Respectfully submitted, GEORGE C. McCARTEN, Secretary. of Special Capability Will Re- called out at that time. main over Nine Months

mittee on Education that members of the S. A. T. C. will be subsistence by the Government, and will receive \$30 a that time will depend on the report of the manufacture and supplies will their standing from the President of the chinery of the colleges to sort out, select be furnished at the Government's expense. This provision has already been be made by the authorities at Washingapproved by the War Department.

The points in the new draft law to be

1. That it now extends from 18 to 45

2. That the programme means the calling out of all young men before the first of July next.

ed normally at ninteen years to stay for ficers' training school. four years.

The men included under this provision are those who are doing satisfactory work in medicine, chemistry and engineering. Not everybody will be kept in will be kept in college longer than nine college more than nine months. The plan as adopted intends to have those course in professional work. students who are physically fit and over eighteen years of age inducted into the for engineers, doctors, and chemists will There are two tests required. These will Army voluntarily. A man so inducted be intensified and all work will be the Fourth of July and the Fourteenth of July and the French National holiday, the numbers of men in town exceed all expectations. That the Technology bureau is the center of Technology bureau is the center of Technology bureau in Erronce there can be no released in the United States Army; he is just the same as a soldier in active duty. Being a soldier on active duty. This new plan involves considerable he will receive the regular pay of \$30 a changes in the college curriculum, so be based on entrance requirements, curbiculum, and the number of students. The colleges will be open to change in the college curriculum, so but their courses will not be given in that, for instance, the normal six-year all colleges, and will be secondary to reduced to four those of the men enlisted. rations and instructions. However, he medical courses will be reduced to four those of the men enlisted. will be subject to military dicipline. H cannot stay in college as long as he more than four years will be reduced her men, and have them under strict wishes: on the contrary, only as long as to about three; and there will be special military discipline. the War Department lets him.

> not to make college men a favorite their work. class; it will not keep them out of the

BARRACKS TO BE ERECTED

The eighteen-year-olders being called last a serious shortage of doctors, more then stay until the first of July next; the well be kept: likewise, if there is a serious shortage of any of the branches of April: the twenty-year-old men the first of engineering, men in such work will be kept over. of January, 1919.

> college and the Commanding Officer at and train men for officers in the Army, the college.
>
> Final determination will There will be a preliminary training. ton. Careful consideration will be given there with respect to the fitness of th portance in his future service in the

IV. If this report is exceptional, he tions. months and encouraged to complete a be limited to certain colleges. The

vears; engineering courses taking a little two and three-year courses for chem-The object of this new draft law is ists, depending upon the nature of their

Only those men who are doing extrenches longer than similar men out of ceptionally good work in the above settled.

No Partiality Will Be Shown college. If the average man of twenty mentioned branches of science will be College Students. Only those years will be called out by the first of kept in the colleges more than nine of Special Capability Will De called out of that time be so kept, longer than nine menths, will It is understood that men will be depend upon the needs of the country called with reference to their age, the eighteen-year-olders being called last vestigation shows that there will be

What will happen to these men after term of a man's stay. Generally speak-

The men will have no expenses. This will have a tremendous influence on the men for particular kind of service college to which they went with refcolleges. Previously men selected the erence to the financial expenditure which it would involve. He will now select the I. If the report is colorless, he will be the result that the better colleges may ordered into a Depot Brigade at som be swamped. As a result, they will This will mean a radical change in the policy of the colleges, where men enter-will be sent to a non-commissioned of of 3000 applicants. This plan gives the men the opportunity, not the right, to III. If the report is still better, he enter the college they wish. This does will be sent to an officers' training not mean that the college will abolish their old system of entrance examina-

> The question arises will this system answer is that practically all of the The programmes in the college courses better colleges will have an S. A. T. C.

The Institute will erect barracks for

Arrangements have not been made for men who will be called out before Sep-

tember 1st, but it is reasonable to expect that this matter will be quickly

PLAN OF S. A T. C.

Chief of Staff of National Committee Gives Report

The following statement has been is sued by the Chief of Staff of the Na tional Committee on Education and Spe cial Training:

ganization of a Student Army Training of the prisoners are carefully censored Corps in the educational institutions of at the camp, and any statements made the country to train men as officers and contrary to the rules laid down for lettechnical experts in the Army. The ter writing simply means destruction plan for the Student Army Training of the letter. Corps, as altered to conform to the plans. It is therefore concluded that any in-of the War Department for lowering the formation coming from American prisdraft age, will utilize the plant, equip oners in Germany is absolutely unreliment and organization of the colleges to able and should not be published in maintain a reservoir of officer material American newspapers or magazines as for training, from which it will be pos in any way authentic. sible to meet the enlarged needs of the various branches of the service.

Length of Training Period The length of time during which men reach them in any way whatever. will be trained in the colleges will depend upon the needs of the service. As FREQUENT COMPLAINTS OVER fast as one group of trained men is drawn from the colleges into the service, their places will be taken by a new quota obtained by voluntary induction have been complaining of the attitude or through the draft. In this way the of some of the naval guards on duty at educational facilities of the country will Harvard College and the radio school. be used to maintain a constant supply Matters came to a head today when needs of the Army.

(Continued on page 3)

TECHNOLOGY GRADUATE HEADS SUMMER COURSE

C. E. A. Winslow '98, Now Professor of Public Health at Yale Intensive Summer Course in Industrial Hygiene

TECH'S EDITOR-IN-CHIEF, '96-'98

An intensive course in Industrial Hygione is being given at Technology in the Department of Biology and Public Health this month by Professor C. E. A. Winslow of Yale University. Professor Winslow is an Institute graduate, Class of 1898, and is at present Professor of Public Health in the Yale Medica: School and Consultant in Industrial Hygiene to the United States Public Health Service.

It was at the instigation of Professor William T. Sedgwick, head of the Institute's Department of Biology and Public Health, that Professor Winslow consented to deliver a specially prepared series of lectures, accompanied by class room work, on hygienic problems which confront the officials of modern manufacturing plants.

Professor Winslow deals, in this special course, with the problems of industrial accidents, industrial poisonings, industrial tuberculosis, industrial fatigue, the ventilation and lighting, and general sanitation of industrial plants; the organization of efforts for the protection of the health of the development of the maximum efficiency of the worker. The

(Continued on page 3)

GERMANS DICTATE LETTERS OF U. S. PRISONERS OF WAR

Col. Churchill, chief of the military intelligence branch of the General Staff. directs the attention of American editors to recently published letters from American prisoners of war in German camps in which the prisoners speak of the excellence of the food and general treatment of the prisoners.

An officer of the military intelligence branch, who spent two years of the war in Germany, reports that there are certain rules laid down for all prisoners in letter writing. The price they pay for the transmission of their letters is that they must state that they are well treated, also that the food is good and A plan has been approved for the or- that they are contented. The letters

It is urged that all editors give the above very earnest consideration in handling prisoners' letters that may

RADIO GUARDS AT HARVARD

For some time res dents of Cambridge

of men who are trained to meet the a well-known Cambridge and Boston man who had sought permission to en-Under the regulations provided for the ter one of the dormitory buildings on Student Army Training Corps, selected business was assaulted, cursed and summarily ejected after having been admitted at the gate.

Receives Appointment To Advisory Chemistry Committee

Arthur D. Little, a graduate of Technology in the Chemical Course with the Class of 1885, has recently been appointed a member of the advisory committee of the fall convention of the American Chemical Society, which is to be held soon. The convention will be attended by many prominent Chemists of the country and it will bring to light some of the marvelous results of revent research. Many engineers and experts who hold important positions in the advance of the chemical industry will be speakers at the various industrial conferences. The proceedings will develop matters of timely interest to the public as well as to the assembled delegates.

The advisory committee of the exposition is composed of Charles H. Herty chairman; Raymond F. Bacon, L. H Backeland, Ellwood Hendrick, Henry B. Faber, Bernard C. Hesse, A. D. Little '85, W. H. Nichols, R. P. Perry, H. C. Parmelee, G W. Thompson, F. J. Tone, T B. Wagner and M. C. Whitaker. Charles F. Roth and F. W. Payne are the managers. Dr. Bacon of this committee is new head of the Chemical Warfare Section of the National Army and a member of General Pershing's The exposition is a war-time necessity. Regarding it as such, each exhibitor is planning his exhibt so that

Continued on page 3)

WAR BROUGHT TO INSTITUTE: TECHNOLOGY IS IN DANGER

"Did you hear about the shells that were fired at Technology by a German submarine this morning?" was the greeting extended to many of the Institute students last Tuesday morning as they came to the first classes of the day. The report of the terrific bombardment of four inch shells soon spread until, if all should be believed, Technology would now be reduced to

a mass of ruins. After the secession of the firing, which must have taen place very early in the morning, one of the shells was found unexploded on the shore of the Charles River, on the Boston side, showing the evident inaccuracy of the Boche's aim. It was about twelve inches long, weighed about forty pounds and was of the regular four-inch caliber. The scare occasioned by the bombardment and finding of the shell, threatened for a time to demoralize the complete Boston Police Force; but, after State Chemist Wedger had examined it, he assured all that it was in no immediate danger of exploding.

Mr. Wedger declared that the projectile was of an obsolete type. It was filled with black powder and could not explode unless it came in contact with fire. The theory advanced is that it is some relic and the owner, not liking to have such an article in his possession, dumped it overboard.



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The Editor-in-Chief is always responsible for the opinions expressed in the editorial columns, and the Managing Editor for the matter which appears in the news columns.

IN CHARGE THIS ISSUE

Henry L. R. Kurth '21 Night Editor

SATURDAY, AUGUST 31, 1918

ARLO BATES

UST as the resignation of Arlo Bates from the Institute in 1915, a year before we moved to a larger life in Cambridge, was almost a symbol of a chapter-ending in our history, so his death last week at the age of sixty-eight seems to mark (to some of us at least) the finis of a volume in the history of Boston literature and culture. As a poor youth fresh from Bowdoin he came to Boston resolved to share its literary heritage, to become a recognized author. In that he succeeded. He became a prolific, popular and well-known Boston literary figure. He wrote poetry, novels, essays, he edited one or two of the famous old Boston newspapers, and at length in 1893 became the head of the English department of the old Institute. There for over a score of years he bent his unsual abilities as writer, editor, thinker, controversialist to the task of giving Technology men a knowledge of how to think clearly, write correctly, and read with understanding and appreciation the best in the English literature of the past. To the success of his labors the Institute graduates of those twenty-three years can bear the best witness, are the best testimony.

He chose to retire before the Institute sought its present quarters, because, one imagines, he saw his lifework done. He saw the Institute inviting radical changes, the better to adapt itself to the service of an age whose philosophy, literature and springs of action he deeply distrusted. It was not a shallow and facile distrust, but one rock-bedded on a life-long devotion to that spirit in letters and scholarship which his own training and practice so beautifully and wholeheartedly exemplified. Knowing him, a younger man of the Venezuelan Government, accordmight believe he knew something of that famous Boston of the seventies and eighties when for the last time, probably, in American history Boston deserved its traditional reputation as a leader in culture. Of that culture and reputation Arlo Bates was a part, a not inconsiderable part. Of that culture and reputation he saw the rapid senescence and the imminent oblivion. The thronging younger generations at the Institute knew not the Paraohs of whose defence and exaltation he gave lifelong the best of his powers as a writer and strength as a teacher. And everywhere he saw rising Paraohs to whose politics, philosophies, and aesthetics he could give only the stoutest and most honest dissent.

Whether or not Arlo Bates misjudged the temper of today, we do not know. But of this we are sure. The things he stood for were pure, honest, beautiful, of good repute, haloed with the best traditions of the centuries. Above all he loved clear thinking, and he knew that great thinking comes largely, perhaps mainly, from great literature. In placing the emphasis of his teaching on the literature which has stood the question of time and the buffet of opinion he was fundamentally right and sound and wise. And the headlong, eager, "practical" youth of today to whom great literature is a useless tombstone marking the grave of a dead and deservedly forgotten past may go a long way and fare a good deal worse than their elders who as undergraduates learned the method of right thinking and the meaning of good literaturet from Arlo Bates.

ROBERT E. ROGERS.

___M_I_T_

Let us hope that placing President Maclaurin at the head of College of Texas, and experts who have States, which is proven by available of the military work in the colleges will so stimulate work here that had them in charge say that the class ficial statistics to be a new world's recommendation will become formulate the class formulate work here that Technology will become famous as a training school of all around is now capable of determining the state ord for safety in training air men in men in both mind and body.

from the Institute with the Class or are college men are regarded as fitted to take up the work. The first class missioned a major in the Construction includes professors, mineralogists, engi-Division of the Quartermaster Corps, and is now stationed at Washington,

Charles W. Drew, Jr. '19, Course XV who recently returned to the Institute to complete his course, after having ob tained a furlough from duty in the Marine Corps in which he had previously enlisted, has had his furlough revoked and has been ordered to report to th Officers' Training Camp at Quantico im mediately.

Myron Harry Lee, in the Sanitary En gineering Course with the Class of 1920 is now in the United States Naval Re serve Force and is attending the Ensigns' School being held at Stevens In stitute of Technology, Hoboken, N. J Prior to his enlistment, Lee was working with the Technology contingent at th Hog Island Shipyard.

Hollon C. Spaulding '87, Course II, formerly manager of the Adversating Department of the Society for Electrics, Development of New York, is now a captain in the Quartermaster Reserve selves, in this first moment of his going, Corps of the U.S. Army. He has been to dwell on his attainment and standing assigned to a post at Halifax. Nova as a man of letters. Their overwhelm-Scotia where he was made Port Quarter ing thought is of their own loss, in that master. Captain Spaulding's address i Box 375, Halifax, Nova Scotia, Canada

Sergeant Paul F. Nichols, Sanitary Corps, U. S. Army, who has been sta-tioned here at Technology on a bacteri ological investigation in the Departmen ceived his commission as Second Lieu makes a man a gentleman. tenant in the Food Division of the San itary Corps. and is to report at Cam Greenleaf, Fort Oglethorpe, Georgia, fo a course of training in the Medical Of ficers' Ttaining Camp there. Lieutenan Nichols was a graduate student in the Department of Biology and Publication Health in 1916-1917, following which h accepted a position as Assistant Healt' Officer at Summit. New Jersey. In tha position he entered the service, and wa subsequently assigned for duty at th Institute under Major S. C. Prescot '94, Food Division Sanitary Corps.



BROWN UNIVERSITY—The advisory of humanity. and executive committee at Brown University has voted to open a campaign for funds to support the policy of aggressive adaptation of war needs which has been adopted by the university. A committee of three is to be named to secure subscriptions.

UNIVERSITY OF PENNSYLVANIA

-The University of Pennsylvania expedition to the hitherto unknown Indian tribes in the mountains between Venezuela and Colombia has returned, having accomplished its purpose in a much shorter time than was believed possible. This was due largely to the assistance ing to Theodore De Booy, curator of the University Museum, who was in charge of the expedition. No white man had ever before entered the mountains.

The many Indian tribes with which he came in contact Mr. De Booy reported belong to the Macoa family, but whether they are Carib or Arowak could not be determined until he has made a philological study of the material gathered. The tribes, according to Mr. De Booy, are in constant warfare with each other and keep their trails hidden. They live on the mountain heights in a land of perpetual mist, and although within ten degrees of the equator, it is extremely cold, especially at night. Mr. De Booy brought back abundant ethnological records.

TEXAS AGRICULTURAL AND ME-CHANICAL COLLEGE—A press des patch from College City, Texas, announces that a class of weather observ ers has been trained for service in the Army who are to be sent to France where the members will report on general weather and atmospheric conditions as an aid in planning artillery, gas, air- 155, which for each hour of actual flyas an aid in planning artiflety, gas, plane and various other attacks. Three ling training was .000305. plane and various other attacks. Three ling training was .000305. hundred or more students have comtion at the Agricultural and Mechanical 3300 hours of flying in the United these stamps in Toyon and apparts who have States which is the United these stamps in Toyon and apparts who have

miles above the earth. Announcemen is made at the college that the War Department intends to train 1,000 men at that institution, which is the only show the following fatalities in actual school of general meteorology in the country. This arrangement will necessitate two more courses in shifts of 335 students each because of the limited H. D. Rawson, who was graduated facilities which exist. Only those who neers and other technical experts. Dr Oliver L. Eassig, of the United States Weather Bureau and Johns Hopkins University is chief instructor.

COMMUNICA-10NS

Department of Biology and Public Health, Massachusetts Institute of Technology August 28th, 1918.

To the Editor of THE TECH:-

The accompanying tribute to Professor Arlo Bates comes from the well known novelist Miss Alice Brown of Boston. and as the testimony of a fellow craftsman as well as a friend is unusually important, no one could wish for anything and thirty-five, inclusive, will also be better.

Sincerely yours, W. T. SEDGWICK. (Signed) The following is the clipping from the Boston Herald:

ARLO BATES

To the Editor of the Herald:

The friends of Arlo Bates, those who really knew him, cannot bring themhe was so kind, so brave, so simply true. He had a cynic speech, but a heart generous to the last degree. He was a patriot, and never hesitated, from the first, in consigning traitors to the pit where they belong. In a world where he was a somewhat homesick visitant, of Biology and Public Health, has re he kept the old-fashioned code that

Boston, Aug. 25. ALIC. BROWN.

Cambridge, Mass., August 22nd, 1918.

To the Editor of THE TECH:-

Dear Sir:

You will remember that the dedicaion of Technique 1919 was "accorded to those sons of Technology who in serving their country have honored their Alma Mater." It is the desire of the Technique Board to do even more. I has therefore decided to appropriate its profits of four hundred dollars for the purchase of bonds of the Fourth Liberty Loan. These bonds are to be held by the Bureau of Technology as the initial contribution to a fund for the erection of a monument in the Great Court of the Institute to honor those Technology men who have so willingly given their services and their lives for the cause

Sincerely, (Signed) D. Oscar De L. Mayer, (Ed.-in-Ch., Technique 1919).

U. S. ARMY OFFICERS CLAIM RECORD SAFE AIR TRAINING

A statement issued by the war de partment recently sets up the claim that a new minimum record for losses sustained in training flights has been established in American aviation train ing camps.

"The United States Army." says the announcement, "has established in the air service training schools a new mini mum record for losses sustained in the training flights. The figures relating to the safeguarding of cadets of the new army training for duty overseas as pilots and observers are now on a par with if not actually lower than, the percent. age figures of this nation's allies and are believed to be much under the fig- the Army.

ures of the central powers "United States schools, in attaining the present rating, have proceeded on the theory that three out of four deaths the applicant is under draft age, and if in flying at the front have been due to lack of judgment and that but one man service and assigned where his special out of four has been killed in action. training will be of value. Further, that if a cadet was given an of his instruction in the flying schools in the United States he would put all of his air training out of mind when he finally reached the front and concentrate entirely on fighting. Because or the fact that he had been perfectly trained as a 'stunt' flyer, it is held, he would be the more able to pick up his rectly into the Army and went to one of fighting tactics quickly.

"Official records show that from Sept 1, 1917, to and including July 20, 191° the losses sustained in the actual flying training of United States air forces in this country by American units total.

"Official figures authorized by the vision of military aeronautics from Sent 1, 1917, to July 20, 1918, inclusive flying training sustained by the United States aviation forces in the United

States. Officers, 74; cadets, 65; enlisted men nine; civilian instructors, seven. Total

NEW AGE LIMIT ANNOUNCED FOR U. S. MERCHANT MARINE

New age limits for men entering the merchant marine through the recruiting service of the United States Shipping Board were announced recently by Chairman Edward N. Hurley, of the board.

From now on adventurous youths from eighteen to twenty, inclusive, will be accepted as sailors, cooks, and sten. ards on all American vessels making mercantile voyages, if they first pass through the training course provided by the Shipping Board on its fleet of training ships. Men between thirty-two accepted in the same way for these three ratings.

Age Limit for Firemen

Hitherto all the 3,000 men a month accepted for training by the Shipping Board and subsequent service in mer. chant crews have been within the present draft-age limits of twenty-one to thirty-one, but in order to draw more lightly on men available for military duty under the present draft regulations the board hereafter will accept men of draft age only for training as officers or firemen. The age limit for officers in much wider, however, being 19 to 55, inclusive, and only men who have spent two years at sea will be accepted for training.

The new age limits for firemen are twenty-one to thirty-one. Firemen who have fired six months on boilers of fifteen pounds pressure will be given special training as oilers and water tenders,

COLLEGE STUDENTS TRAINED AS MEDICAL CORPS OFFICERS

The Medical Department of the Army. through the National Research Council, will shortly issue an appeal to American colleges and universities urging them to alter their curriculum so that third and fourth year students may receive special training which will enable them to qualify as officers and for other work in the Medical Department.

Sent to All Colleges

The appeal will be sent to all the prineipal colleges and universities in the country, but as it is realized that important institutions may not for various reasons receive the appeal, the request is made that all directing heads of such institutions write to either Dr. Richard M. Pearce, of the National Research Council, Washington, or to the Division of Laboratories, Office of the Surgeon General, Washington, for details of the proposed plan.

These colleges will render valuable assistance to the Government by offering these special courses to their students who will enter the Army when they become of age, or in the event that they volunteer before that time. The students desired are those who are taking the various scientific courses: The course proposed by the Medical Department should appeal to men who are specializing in biology, zoology, plant pathology, and in industrial and agricultural bacterology.

Arranging the Courses

In a number of institutions the necessary courses can be arranged by a simple modification of the already existing course in bacteriology with added emphasis on special subjects of value to

After completing such courses ar rangements for enlistment can be made through the Surgeon General's Office if of draft age he can be inducted into the

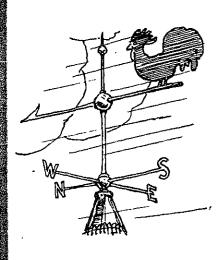
Plan Already Tested

This plan has already been tested in two colleges and the success attained has led the Medical Depriment to apply it to as many colleges as possible. From one such institution every man taking the modified course was admitted dithe training schools, where a portion of them will later quality for commissions in the Sanitary Corps. Others have qualified for positions at field or mobile laboratory units and as assistants in base and evacuation hospitals.

Every time you stick a Thrift or War Savings Stamp on your card you are mailing money to yourself to be rethese stamps is going to be better than "getting money from home," for with the money comes the reminder that you con tributed to the great victory which I then will have been completely won.

Which Way

s The Wind Blowing at Technology





IS THE OFFICIAL

VEATHERVANE

OF THE ALUMNI

OF TECHNOLOGY.

IT GETS WIND OF

HAPPENINGS

"OVER THERE."

IT WILL TELL

YOU WHEN YOUR

CLASSMATE

DOWNED HIS FIRST

BOCHE FLIER.

SEND A

DOLLAR AND A

HALF FOR

SIX MONTHS'

SUBSCRIPTION.

A. D. LITTLE '85 HONORED

(Continued from Page 1)

it will be of greatest benefit to the country through the men who visit all of whom are bent upon a serious purpose-that of producing war materials in large quantities, and constantly increasing this production till the war vania, on some special work, just before has been won by the United States and the outbreak of the war; and gave us

the convention. It is expected that these discussions will have an important bearing on the future manufacture of materials that have been scarce and high-priced ever since the curtailment of American commerce with Germany and other European countries. While hundreds of factories have sprung up in various parts of the country, it is pointed out by experts that there is a lack of prepartion to meet new conditions, which are bound to follow the

ALUMNUS HEADS

SUMMER COURSE

(Continued from Page 1)

the chemical industries in general has the French people even went one betcreated critical problems by the intro-ter when the blue clad Poilus came in duction of new and dangerous ingredients. In addition, problems have been
made more acute by the replacement of at the Union given by the staff to the men by women in any fields; and recent French Homes Committee who have studies in British and American munt- taken such an interest in the Union and tion factories have made it clear that opened their homes to the American proper adjustment of work hours and boys. Many Technology men dropped in rest periods may exert a far-reaching for a social half hour and enjoyed the influence upon factory output.

sor Winslow, upon a preiod in which the special occasion, in spite of the fact that expert design and operation of the life- it was defendu. less machine will be supplemented by an service in the war emergency.

having given such an enlightening and front to those behind the lines, was one interesting lecture to English classes which expressed their regard for what last term on the Russia of the past sive knowledge of Russian conditions, baving been a member of the Red Cross present, and future. He has an extennaving been a member of the Red Cross and presented the universoty men of Commission which visited that country America to M. Tardieu.

the making of Technology's history as Rheims. Dave Garb, whom many will Editor-in-Chief of THE TECH from remember as instructor in English at 1896 to 1898.

PLAN OF S. A. T. C.

(Continued from Page 1)

young men who are physically fit for military service, who are 18 years of age or over, and who have had a grammar taking part in the push and came out school education, may voluntarily be of the scrap with but four men left in inducted into the Army and enter upon his platoon. Wm. Dodge '15 is in one a course of special training. Those who of the Paris hospitals from shrapnel have had a grammar school education, wounds and yesterday sat up for the but no more, will ordinarily enter specific time. D. B. Baker '15 was also cial training detachments to be trained in the offensive and is now at Bordeaux along mechanical lines of military value. hospital from shrapnel wounds. These detachments will become a part of the Student Army Training Corps, and other day. A large number of men from their mechanical training that they are have just been here getting equipment. officer material may be transferred to a These include A. G. MacAlister '16, Herunit in one of the colleges to be pre- bert W. Barrett '18. Osmond S. True pared to enter a central officers' training '20. Wm. B. Hunter '17.

Training for Officers

Young men who have had at least a high school education will be allowed to 14 is here in France in charge of Aeroenter the colleges for more advanced graphic work for the Navy, which is a taining as officers and as technical experts of various kinds, according to thei experience and abilities. Those men who C. Wooten '18, Leonard Besley '17, show promise under this training will be Tristram Campbell '18. Elbert Greeve '10. kept in college until qualified to enter John M. DeBell '17, D. R. Dixon '14. central officers' training camps or to go Neal Tortclotte '17. Edwin Jenckes '10. directly into the service as technical ex. H. L. Wood '17, F. R. Whelton '21, who either to noncommissioned officers' S. M. Schmidt '11, J. A. Aaron '11, C. schools or to the nearest depot brigade, W. Loomis '16, B. A. Adams '98, R. B. or in case they show special technical Haynes '13, Guy Hill '06, J. M. Erving or mechanical ability, to the detach- 19, R. J. McLoughlin 17, W. J. Beadle ments where men are trained for such 17, C. T. Barnard '17, J. A. Lunn '17,

ferring from the depot brigades to units and Wm. Sprague '16. of the Student Army Training Corps men whose ratings in the cantonments George Petit '16, George Cole '16, Ed. indicate them to be officer material, b t not yet ready to enter central officers others expect to receive their commismade to give every young man who en- part of the third training camp con-

tunity for the training best suited to his natural ability and references, in order to enable him to serve the country in the most efficient way.

UNIVERSITY UNION NEWS

(Continued from page 1)

all a good insight into the working of Papers covering practically every the German mind among the scientific phase of chemistry will be presented by leading experts in each branch. Pressing chemical problems concerning many of the chief articles of domestic and foreign commerce will be taken up during the convention. It is expected that these discussions will have an impor-

tions, which are bound to follow the were the first in line of march with a full band. The sight and enthusiasm that greeted the boys as they came down the boulevard Malesherbes, playing 'Over There,' was something that no one who saw the parade will ever forget. It was not only the Americans who received such an ovation but every one of the different nationalities. Regardless of the great increase in muntion making and enthusiasm showered on all the others.

ice cream and pastry, which the hotel We are entering, according to Profess management had furnished for the

"Monday night the University men got equally thorough study of the living ma- together and tendered a dinner to M. chine and the physiological and psy- Andre Tardieu. French High Commischological factor which govern its func- sioner to the United States. Many tioning. Trained men and women are notable guests were present, among greatly needed to aid in the development them the Hon. Wm. G. Sharpe, Ameriof this essential branch of industrial can Ambassador to France, who in his talk, although brief, was to the point Professor Winslow will be remembered and stated that the spirit the Ameriby the undergraduates of Technology as cans have shown, from the men at the

a short time ago.

Although he is no longer directly connected with Technology. Professor Winslow still maintains an ardent interest in all Institute affairs, and is as active in the doings of the undergraduate body as he was in the olden days when he aided in the founding of traditions and the making of Technology's history as Debims Days Carh, whom many will "As for local news of Technology men. the 'Stute, is now at the same school and will complete the course in September. Although well over draft age he has been over on this side in the ambulance service and as a Red Cross man for a long time, but did not satisfy him as he wanted more active service.

"Joe Guppy '18 wa in over the week end, having just come back from

"Fred H. Cook '00 registered in the

"Rafeal Alfaro 16 now has his double service stripe and has just been sent to the engineers school for a try at a commission. Roswell F. Barrett compactively new banch.

"Registrants from July 16 include J. Those who do not will be sent has the Croix de Guerre: L. T. Hill '17. Nelson Stone '15, W. T. Spaulding '13. Arrangements will be made for trans- L. G. Mack '16. J. G. MacDougall '16

"At the American Artillery School Kaula '16. Martin '18 and about eight Every effort will be sions in a few days. These men were ters the service under this plan oppor- tingent from Technology.

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DR. PROCTOR TELLS COURSE VII MEN ABOUT LEPROSY

Dr. Proctor, medical officer of the Massachusetts State Board of Charities gave an extremely interesting and unusual talk Thursday morning to the students in the special course in Public Health Laboratory Methods on Leprosy. Leprosy is on the increase in this country and in Massachusetts, and will continue so because of our increasing trade relations with the West Indies and the Philippines. The annexation of Porto Rico has some influence on the prevalence here of this still incurable disease. The disease spreads in some unknown manner; it does not seem to be hereditary, and scientists, as yet, have never succeeded in inoculating it either in animals or human beings. This disease has no respect for class or individuals, as is exemplified by the fact that one of our own foreign students in the Department of Chemistry who was of the highest social standing in his own country was stricken with the disease less than a year ago.

TOO FEW BLAST FURNACES TO SUPPLY PIG IRON FOR GREAT WAR PROGRAMME

The serious condition confronting the anishing steel mills is now engaging the attention of the Government. At present mills are limited in output because of inability to obtain ununished steel. This traces back to the lack of enough blast furnaces to furnish pig iron for all the war programme. Estimates of the amount of steel required for war purposes and commercial activities which t is important to maintain continue to increase. The steel trade was rather startled a month ago by the statement of the War Industries Board that 20.-800,000 net tons of finished rolled steel would be required for the present halfyear. Recently, however, the board held a conference with the Fuel Administration and announced that its requirements were 22,000,000 tons of steel and that, as five tons of coal were required for one ton of steel, the Fuel Administration -hould provide 110,000,000 tons of bitum-

As that represents one-third of the present rate of output, the Fuel Adminnstration was given a greater task than the steel industry. The War Industries Board also has announced an eitmate of 20,000,000 tons as the probable reanirements in the first half of the new year. In the past the best production ever made in a half-year was 16,500,000 cons. Better now can be done, but not 22,000,000 tons. An active canvass is in process to determine the time and effort that would be involved in increasng the iron and steel output by new construction. A decision eventually will be rendered by the War Industries Board and the other Government departments interested as to whether such new construction should be undertaken. By the end of the year the finishing copacity will be increased by 1,000,000 tons of new plate capacity and further shellsteel requirements of about the same

With new steel mill capacity under way, and none in blast-furnace capacity. the problem is to find the raw iron and steel. At present many lines are operating at 50 to 70 per cent of capacity, to enable steel to be diverted to the tin-plate, structural and steel-plate mills. In pig iron the prompt needs of Great Britain, France and Italy are being filled only with the greatest difficulty. The States Steel Corporation takes the slight increase in the production of Connellsville cake in the past few weeks, and the almost continuous increase in the production of by-product coke, make it probable that coke for additional blast furnaces could be provided without difficulty. The matter of iron ore presents scarcely any difficulty.

Ships and Cars Absorb Steel

Plates and structural maerial are going forward in great quantities, but ship yards and car shops apparently are keeping abreast with mill production. The American Bridge Company has been ordered to proceed with the fabrication of the first buildings for the Neville work will be needed. The distribution of the 10,000 cars for the American Expeditionary Forces is as follows. American Car & Foundry Company, 2400; Standard Car Company, 1900; Haskell & Baker Car Company, 1800; Pressed Steel Car Company, 1500; Pullman Company, 1500; Standard Car Construction ompany, 400 tank cars; Liberty Car Company, 250; St. Louis Car Com-

Careful inspection of all favricating shops at work for the Hog Island and Submarine Boat yards will be inaugurated so that no shortages of steel or other difficulties will impede the progress of the work. Attention has been directed to the rate at which ships are to be built by the request of C. M. Schwab, director general of shipbuilding, that the allotment of plates for such work be increased to 70,000 tons for three months. The board has agreed to allot any plates that might be released by other departments paring their estimates. The 50,000 tons a week now being shipped would represent steel vessel construction at the rate of 12,000,-000 tons a year or 1,000,000 tons a month. Yet steel ship completions in July amounted to only 217,000 tons while launchings amounted to 433,000 tons. It becomes apparent that a much heavier rate of shipbuilding is expected.

It is also clear that the steel industry has kept much in advance of shipbuilding, as to furnishing the necessary material. Production of sheared and universal plates in July by the Carnegie Steel Company was 122.979 tons, as compared with 116,417 tons for June and 125,480 tons for May, the record month in the history of the company. With the completion of improvements being made at Homestead in the way of additional heating furnaces and shearing capacity, which probably will be in operation by the first of next year, the Carnegie Company will increase its output about 10,000 tons per month.

Tin Plate for Essential Wants

Tin-plate manufacturers contend that, despite published reports of a 30 per cent shortage, they are producing sufficent tin plate for all essential wants. Production of tin plate in July approximated 3,000,000 base boxes, which exexceeds all previous records for that month. Food requirements are being met from month to money and, it the steel supply homs out, the tin-plate mills will be able to take care of other important lines of consumption when the food crops are out of the way.

Production of sheets has decreased further and probably is not now over 55 per cent of capacity. There is little prospect that the supply of sheet bars will increase materially and the most rigid regulation of the distribution of the l'mited sheet output is regarded as imperative. Tonnages of sheet bars are being located with a view to bringing about a more nearly uniform production. fo save transportation and expedite shipments, a plan has been adopted by which sheet bars are shipped from producing mills to the nearest consuming

Production of tubular goods has been curtailed. A moderately heavy distribution of pipe will be made to jobbers this month, in accordance with the permission given by the War Industries Board. situation ... wrought pipe for domestic use has not been settled and jobbers are trying to get a decision from Washington. A jobber just returned from Washington says he finds authorities there willing to accept the interpretation that such pipe intended for sanitary puroses in houses building for use of working men in congested manufacturing districts may be regarded as cs-

Greater Steel Rail Production

Increase in production is resorted by some steel rail mills. The steel distribution committee of the American Iron & Steel Institute has allocated 200,000 gross tons of rails to several steel companies for shipment to the American Expeditionary Forces in France at the rate of 40,000 tons a month. The United largest part, 126,800 tons, the remainder being divided as follows: Bethlehem Steel Company, 25,200 tons; Colorado Fuel & Iron Company, 16,000 tons; Lackawanna Steel Company, 16,000 tons; Cambria Steel Company, 16,000 tons. Either Bessemer or open-hearth steel may be furnished. The price on rails, to be fixed, will apply to the order. The Japanese government is seeking early delivery on 38,000 locomotive and car

Pig iron is in demand from all sources. The policy that many merchant furnaces have pursued in the past two or three weeks of selling pig iron in a limited way for delivery in the first half of next Island gun plant, involving 20,000 tons year is not approved at Washington. of steel. It is not unlikely that con-Director J. L. Replogle is writing struction will be spread over three years. foundries which are seeking to buy for For air nitrate plants at Cincinnati and next year that he cannot instruct fur-Toledo, 20,000 tons of steel building naces to take orders for that delivery. Current sales for nearby deliveries are almost all the result of allocations. The allocations are not atogether as heavy as they were, but very considerabe demands are in prospect for Great Britain, France and Italy. The majority of furnaces find that it will take practically until the end of the year to clear their order books, even though the specific sales for the second half of the year represented but a small tonnage.

Consumers of pig iron in increasing numbers are shifting from non-essential to essential production. They are accordingly getting allocations when previously they were unable to do so. Produtcion of pig iron during July was at the rate of about 40,700.000 gross tons a year, compared with 40,800,00 in June and 40,900,000 in May. The summer decrease usually has been much larger than this year's. More furnaces are in blast and much heavier production is to be expected when the hot weather is over. A rate close to 43,000.000 tons probably will be attained in October. The output of steel ngots has increased slightly in most plants, but these summer losses will be made up. Production as a whole is much better than was expected six months ago.

More By-Product Coke Ovens

By-product coke production continues to increase at a very satisfactory rate, although all work on by-product ovens has been retarded for more than a year by scarcity of labor and materials. The production at the Clairton plant of the Carnegie Steel Company has increased to such an extent that the requirements of all three furnaces are being supplied, representing about 10,000 net tons of coke a month. This is the output of the first battery of 128 ovens. The second battery will get into operation in from 30 to 60 days; the next three probably before the end of the year. Six additional batteries are expected to be completed in 1919. Clairton

approximately twice as large as any distribution of sheet bars by the part with the other in the world, the largest at present has not enabled the sheet mills to me being the one at Gary, Ind.

pany is just putting into operation one- per cent rate, to which the big can of its 204-oven addition. The Na- of Steel Supply recently requested tional Tube Company's 208-oven plant at to restrict themselves, have Lorain is operating half its ovens, the abandoned. The danger now is that other half to be completed in September. will be necessary to restrict the she The American Steel and Wire Company's bar supply still further, but there plant at Cleveland. 180 ovens, which little question whether after the cause made its first coke in May, is now in season the tin-plate mills will still full operation. Many other by-product plants are in course of construction, several having been contracted for within the past three months some of them casionally to be picked up, but being financed by the Government. By great bulk of this material is be product coke is now being produced at the rate of 27,000,000 net tons a year. other war activities, as many back Not one-half as much was made in any products are needed for the war was year prior to 1915. Less than one-fourth as much was made nine years ago.

The tense steel conditions has develped a number of new users of not-rolled strip steel. They formerly used blue annealed sheets and cut them to size. Some use has been made of strips to take care of the increased demand for Ight plate and blue annealed sheets from & Steel Company. The shorts where narrow gages are required. The has restricted cold rolled strip milks demand for such material, it is explained by the strip mills, could be satisfied to a much greater degree if buyers would take advantage of the facilities of strip mills whenever widths under 16 inches are required. This would relieve the pressure from sheet and light plate mills and place the business in directions where capacity is not overtaxed. At the same time it would insure greater accuracy in both widths and

In this particular field, too, no priority orders are necessary where Government order number is given, or where it is accompanied by an affidavit that it is for officers' reserve corps and the enlist war work. For France 44,000 tons of reserve corps: all officers and enlist companied by an affidavit that it is for shell billets measuring 145 mm, on the ! diagonal are wanted, mostly in the first quarter of next year, with about onekuarter of the total in December. The Japanese Government is desirous of getting 33,000 steel tires and a large lot of axles, but it is experted that arrangements cill have to be sade at Washington and the usual release effected before the mlls will consider the business.

Famine in Semi-Finished / Steel

Semi-finished steel continues to be a famine article. The steel mills would be willing to buy either billets or ingots in the open market, but practically no tonnage may be had. Some mills are producing regularly an excess of ingots or billets over what they finish themselves, but all such tonnage has been allocated. Much unfinished steel is moved from one point to another, so as to put it through finishing mills whose product is most essential. There are cases in which this extra movement adds a cost of \$5 to \$8 a ton. Lan Lan.

In the past two or three weeks tain an average operation of 60 The Youngstown Sneet and Tube Com- cent. All hopes of their reaching the given the 100 per cent supply that the have been receiving.

Odd lots of shell discard steel are a rolled for the War Department and that can be made from this stook of large maker of bars has had all i tonnage commandeered until Novemb on a new shell-order order, while sh tons for gas bombs are in the market For the making of hull rivets, 12.500 to of 4 by 4-inch billets, it is understood have been allotted to the Man Wo 70 per cent and shafting mills to per cent of capacity.

GENERAL CROWDER DEFINES SERVICE OF ARMY AND NAV

Mai. Roger Walcott recently mi public the following letter recen from Provost Marshal-General Crowde

"The words, 'persons in the military and naval service of the United State shall be construed as including all of cers and enlisted men of the regul army, the regular army reserve # men of the navy, the marine corps at the coast guard; all officers and enlis ed men of the naval militia, naval r serve force, marine corps reserve m national naval volunteers recognized the many department; all officers of public health service commissioned to der authority of the act of Jan. 4, 1881 and any of the personnel of the ligh house service and of the coast and ge detic survey transferred by the Pres dent to the service and jurisdiction the war department or of the navy

"Officers and enlisted men of then tional guard and national guard reser not drafted into the military service the United States shall not be regard as in the military service of the Unite States, although their organization may have been recognized by the milit bureau, unless and until such organiz tions have been specially designated orders from the war department to drafted into the military service of the United States."

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